Surfing the Hippocampus Wave

Bartel, F.

2019

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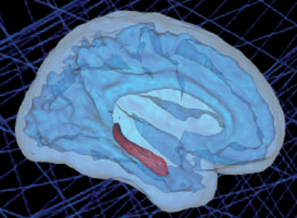
The hippocampus plays a crucial role in memory formation. It is important to assess the hippocampal volume and volume changes in patients with neurodegenerative diseases, as well as in patients suffering from cognitive decline due to brain radiotherapy.

Cognitive dysfunction is often associated with tissue loss, and anatomical changes can be detected with magnetic resonance imaging (MRI).

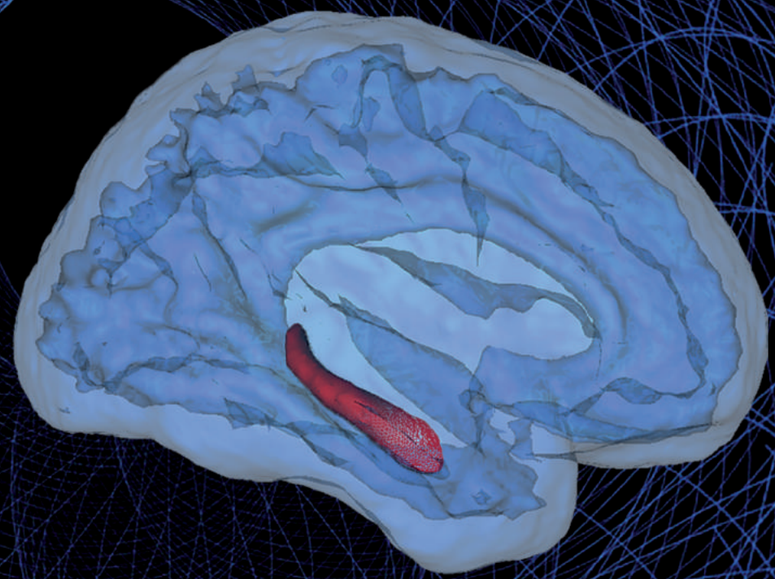
The general objective of this thesis was to optimize methods for detecting anatomical changes through delineation of the hippocampus using MRI. Within the scope of the general objective, the performance of commonly used available detection methods are tested, compared, and new methodologies based on mesh processing procedures are developed.



Surfing the Hippocampus wave

Fabian Bartel

Surfing the *Hippocampus* wave



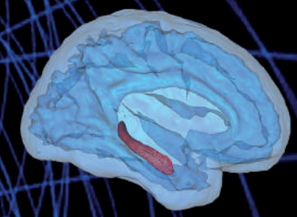
INVITATION

You are cordially invited to the public defense of the thesis

Surfing the Hippocampus wave

on Thursday 28th February 2019, at 11:45 AM

The defense will be held in the Aula of the Vrije Universiteit, De Boelelaan 1105 in Amsterdam



Fabian Bartel
fab.bartel@gmail.com

Paranymphs:
Martin Visser
Alexandra de Sitter

Fabian Bartel